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### DRY BIOLOGICAL PREPARATIONS

N. N. Titov, Dr Vet Sci

Scientists of the medical institutes and the veterinary biological plants, working with large numbers of different biological preparations, such as materials for inoculations and vaccines to combat contagious diseases and to be used for other medical purposes, have long recognized the necessity of processing them in materials so that they might be conveniently stored and transported. It was evident that freezing and drying by vacuum was the answer. For this purpose the "VGNKI" (Central State Scientific Research Clinical Institute) Chamber was constructed.

Docent L. C. Bogomolova dissolved plasma which had been dried and then stored for 2 years and found that therapeutic results were good in pulmonary and enteric hemorrhages, trophical ulcers, dystrophy, etc. (By drying plasma and redissolving it, precipitation of fibrin and the danger of thrombosis are prevented.) Professor M. M. Ivanov, in his experiments with animals, obtained similar results with serum which had been stored for 5 years. Professor H. B. Likhachev, Stalin Prize winner, successfully dried such unstable biological preparations as the virus of hoof and mouth disease, smallpox of birds, etc. None of his dried preparations had lost in effectiveness after 1½ years and more in storage.

At present, Soviet scientists are working on a new method of preparing dry biological preparations.

According to an illustration in the text, the apparatus consists of a small vacuum tank with a hermetically sealed cover; the tank contains a rack to support the ampules of the liquid which are to be dried, as well as a drying chemical. The vacuum tank is immersed in another tank cooled by coils with liquid ammonia.

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